1775 Highlights from Recent Cancer Literature

**REVIEWS**

1777 Nerve–Cancer Cell Cross-talk: A Novel Promoter of Tumor Progression
Phillip Jobling, Jay Pandav, Sonia M.R. Oliveira, Séverine Roselli, Marjorie M. Walker, and Hubert Hondermarck

1782 Amino Acid Transporters in Cancer and Their Relevance to “Glutamine Addiction”: Novel Targets for the Design of a New Class of Anticancer Drugs
Yangzom D. Bhutia, Ellappan Babu, Sabarish Ramachandran, and Vadivel Ganapathy

**INTEGRATED SYSTEMS AND TECHNOLOGIES**

1789 Molecular Portraits of Epithelial, Mesenchymal, and Hybrid States in Lung Adenocarcinoma and Their Relevance to Survival

**MOLECULAR AND CELLULAR PATHOBIOLOGY**

1801 Lung Tumor Suppressor GPRC5A Binds EGFR and Restrains Its Effector Signaling
Shuangshuang Zhong, Huijing Yin, Yueling Liao, Feng Yao, Qi Li, Jie Zhang, Huike Jiao, Yongxi Zhao, Dongliang Xu, Shuli Liu, Hongxia Song, Yong Gao, Jingsi Liu, Lina Ma, Zhi Pang, Rui Xu, Chengyi Ding, Beibei Sun, Xiaofeng Lin, Xiaofeng Ye, Wencheng Guo, Baohui Han, Binhu Na, Zhou Y, Eugene Chin, and Jiong Deng

1815 Genomic and Functional Analysis of the E3 Ligase PARK2 in Glioma
De-Chen Lin, Liang Xu, Ye Chen, Haiyan Yan, Masaharu Hazawa, Nian Doan, Jonathan W. Said, Lingwen Ding, Li-Zhen Liu, Henry Yang, Shizhu Yu, Michael Kahn, Dong Yin, and H. Phillip Koeffler

1828 Spatially Resolved Metabolic Phenotyping of Breast Cancer by Desorption Electrospray Ionization Mass Spectrometry

1838 CDK4/6 Inhibitor PD 0332991 Sensitizes Acute Myeloid Leukemia to Cytarabine-Mediated Cytotoxicity
Chenyi Yang, Cynthia A. Boyson, Maurizio Di Liberto, Xiangao Huang, Jeffrey Hannah, David C. Dorn, Malcom A.S. Moore, Selina Chen-Kiang, and Pengbo Zhou

1846 Aberrant Expression of ProPTPRN2 in Cancer Cells Confers Resistance to Apoptosis
Alexey V. Sorokin, Binoj C. Nair, Yongkun Wei, Kathryn E. Aziz, Valentina Evdokimova, Mien-Chie Hung, and Junjie Chen
PREVENTION AND EPIDEMIOLOGY

1859 miR-21 Inhibition Reduces Liver Fibrosis and Prevents Tumor Development by Inducing Apoptosis of CD24+ Progenitor Cells
Jing Zhang, Jingjing Jiao, Silvia Cermelli, Kyle Muir, Kwang Hwa Jung, Ruihui Zou, Asif Rashid, Miha Gagea, Sonya Zabludoff, Raghu Kalluri, and Laura Beretta

Précis: These findings highlight the function of a widely studied oncomiR in the survival of CD24+ tumor-initiating cells and reduced liver fibrosis.

THERAPEUTICS, TARGETS, AND CHEMICAL BIOLOGY

1868 Histone Deacetylase Inhibitors Repress Tumoral Expression of the Proinvasive Factor RUNX2
Valentina Sancisi, Greta Gandolfi, Davide Carlo Ambrosetti, and Alessia Ciarrocchi

Précis: These findings offer evidence that the cytotoxic activity of HDAC inhibitors against cancer cells relies not only on reactivating silenced tumor suppressor functions, as widely thought, but also on silencing oncogenes that drive cell survival and malignant progression.

TUMOR AND STEM CELL BIOLOGY

1883 RSPO2 Enhances Canonical Wnt Signaling to Confer Stemness-Associated Traits to Susceptible Pancreatic Cancer Cells
Matthias Ilmer, Alejandro Recio Boiles, Ivonne Regel, Kenji Yokoi, Christoph W. Michalski, Ignacio I. Wistuba, Jaime Rodriguez, Eckhard Alt, and Jody Vykoukal

Précis: These results show how blocking a stemness-promoting pathway in conjunction with established chemotherapy could help disrupt dynamic cancer stem-like cell processes and present novel therapeutic targets and strategies.

CORRECTION

1922 Correction: PTEN Loss Contributes to Erlotinib Resistance in EGFR-Mutant Lung Cancer by Activation of Akt and EGFR
Nico Ullrich, Anja Heinemann, Elena Nilespe, Inka Scheffrath, Joachim Klotz, André Scherag, Dirk Schadendorf, Bernhard B. Singer, and Iris Helfrich

Précis: These findings define splice isoform-specific immunomodulatory and cell biological functions of cell adhesion protein CEACAM1 in melanoma pathogenesis, shedding light on how different splice isoforms affect the oncogenic versus suppressive actions of this important but complex factor in cancer cells.
ABOUT THE COVER

GPRC5A was repressed, while EGFR was dysregulated, in inflammatory lung tissues (n = 10) in comparison with those in normal lung tissues (n = 10). The inverse correlation between EGFR and GPRC5A was complete, without one exception. IHC staining for GPRC5A in human inflammatory lung tissue is shown in the representative image. For details, see article by Zhong and colleagues on page 1801.